



# **Massachusetts Bay Transportation Authority**

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## **MBTA Quarterly Safety Report**

**Ronald Nickle, Chief Safety Officer**

**Holly Durso, Director of Transportation Safety**

**April 30, 2018**



## Overview

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- Regulatory Updates
- Workplace Safety Improvement Initiative
  - Facility Inspections
- Safety Data Review
  - Employee Injuries & Assaults
  - Derailments
  - Bus Collisions
  - Subway & Bus Fatalities
  - Commuter Rail Trespasser Strikes



## Regulatory Updates – FTA & DPU Regulatory Changes

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- FTA Final Rule – State Safety Oversight (49 CFR 674)
  - DPU Revised State Safety Program Standard (220 CMR 151)
  - Increased DPU authority; changed incident reporting thresholds
  - New regulation became effective November 28, 2017
  - MBTA-DPU Transition Team formed January 2018
  - DPU received FTA Certification in March 2018
- Department of Labor Standards (DLS) Oversight – February 2019





## Workplace Safety Improvement Initiative

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- Accomplished:
  - Occupational Health & Safety (OHS) Plan
    - Signed by GM in January 2018
  - Personal Protective Equipment (PPE) Safety Bulletin issued
  - Supervisor Injury Investigation Reporting
  - Facility Inspections: 18/23 baseline inspections completed
    - Facility scorecard system
  - OHS Steering Committee & Working Group
  - Facility OSHA gap analysis checklists completed
  - Safety Hotline Campaign
  - PPE poster designed & approved



## Workplace Safety Improvement Initiative

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- In process:
  - Urgent Safety Advisory for construction site work plans
  - Facility & construction OSHA gap analyses
  - Electrical Safety Bulletin
  - Fire Life Safety Bulletin
  - Fall Protection Bulletin
  - Confined Space Bulletin
  - Consultant program development blitz
  - SafeT campaign
  - Safety culture survey



## Workplace Safety Improvement Initiative

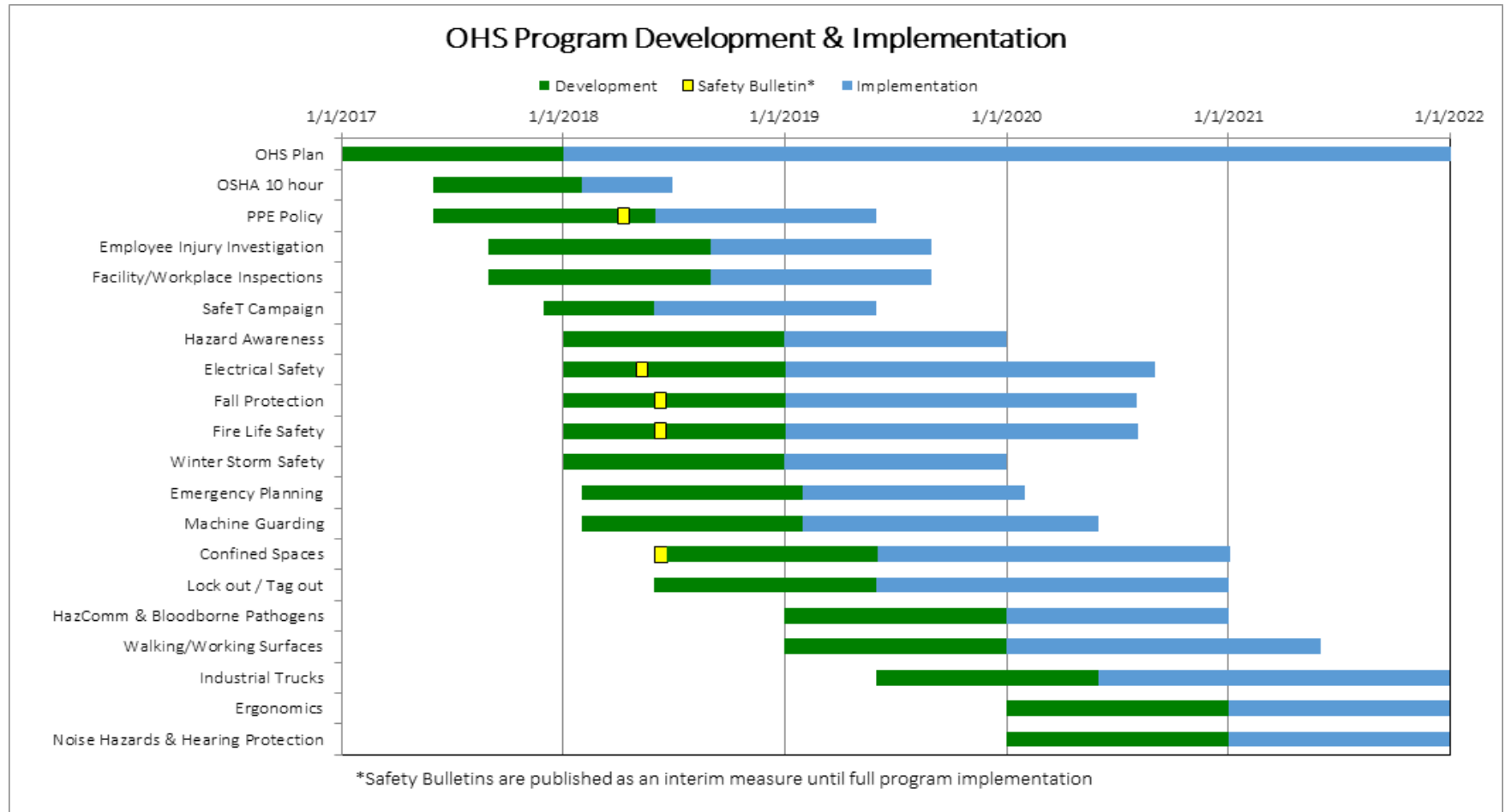
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- Initiative Development
  - Electrical Safety
  - Confined Space
  - Fall Protection
  - Fire Life Safety/Emergency Egress
  - Facility & Workplace Inspections
  - Hazard Awareness Training
  - Personal Protective Equipment (PPE)
  - Employee Injury Investigations
  - Winter Storm Occupational Safety
  - Job Hazard Analyses





## OHS Program Development & Implementation\*



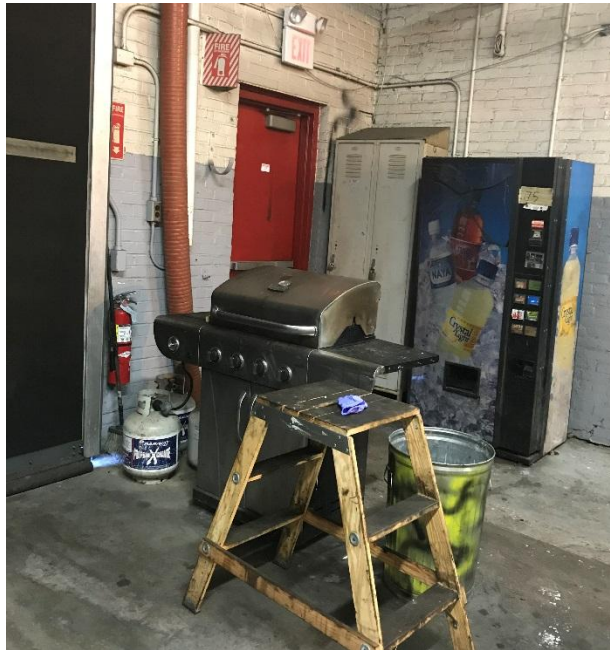
\*Additional applicable programs & policies will be developed and implemented as identified



## Facility Inspections

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- MBTA Safety scheduled to inspect 23 facilities
- Working with management to perform and record on-site inspections



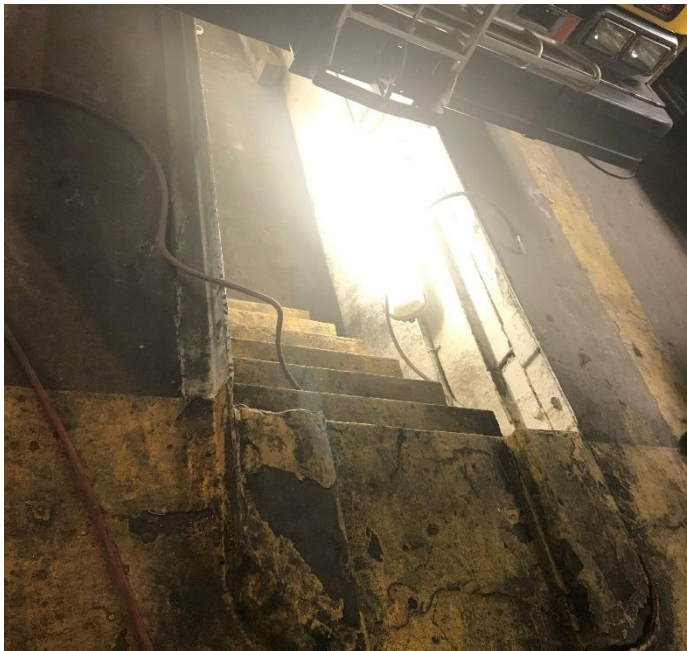




## Facility Inspections

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- Quincy Bus Garage

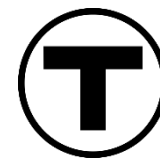




## Facility Inspections

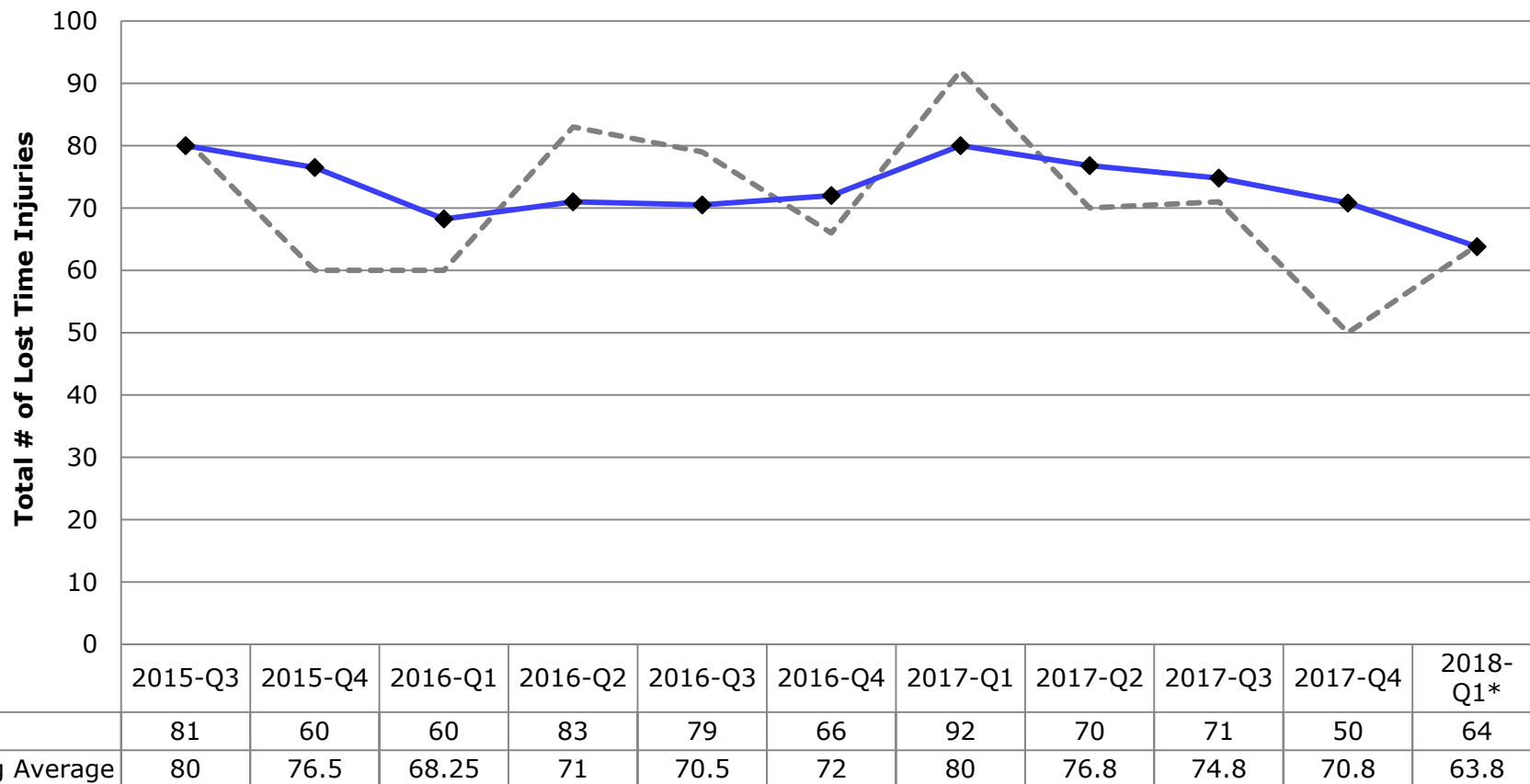
- Quincy Bus Garage has received new grinders





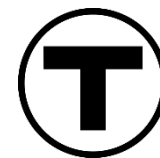
## Employee Lost Time Injuries

### Employee Lost Time Injuries\*



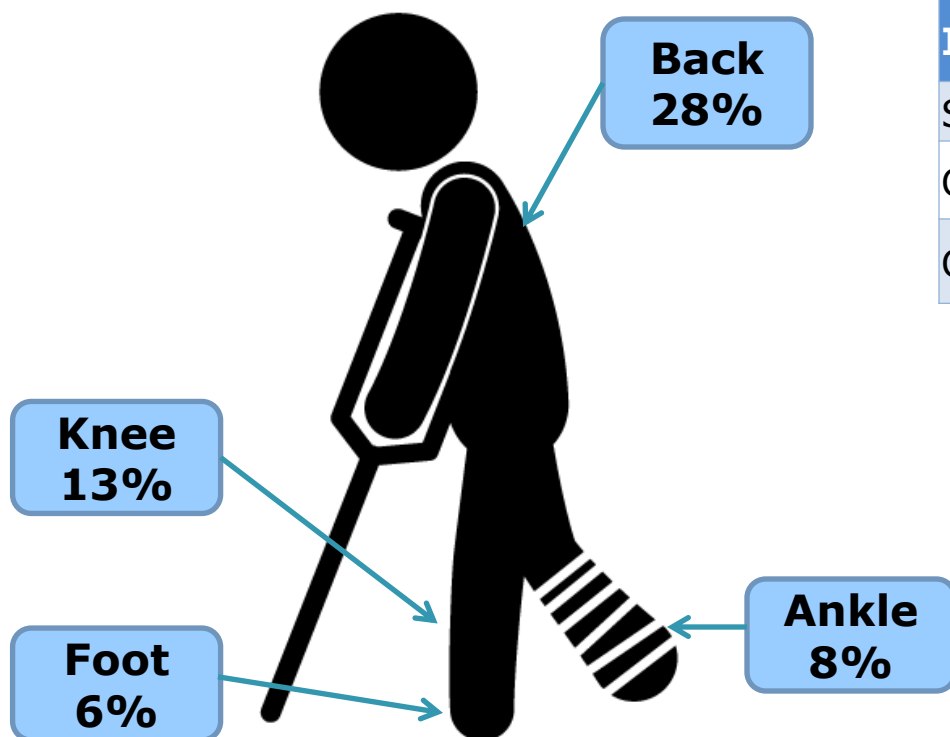
\*Totals based on injury reports submitted to MBTA Safety.

March 2018 data is pending final verification with reporting departments and Worker's Comp.



## Employee Injuries

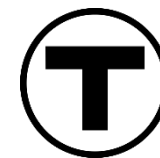
### Most Common Lost Time Injured Body Part in Quarter 1 - 2018



### Most Common Lost Time Injury Types in Quarter 1 - 2018\*

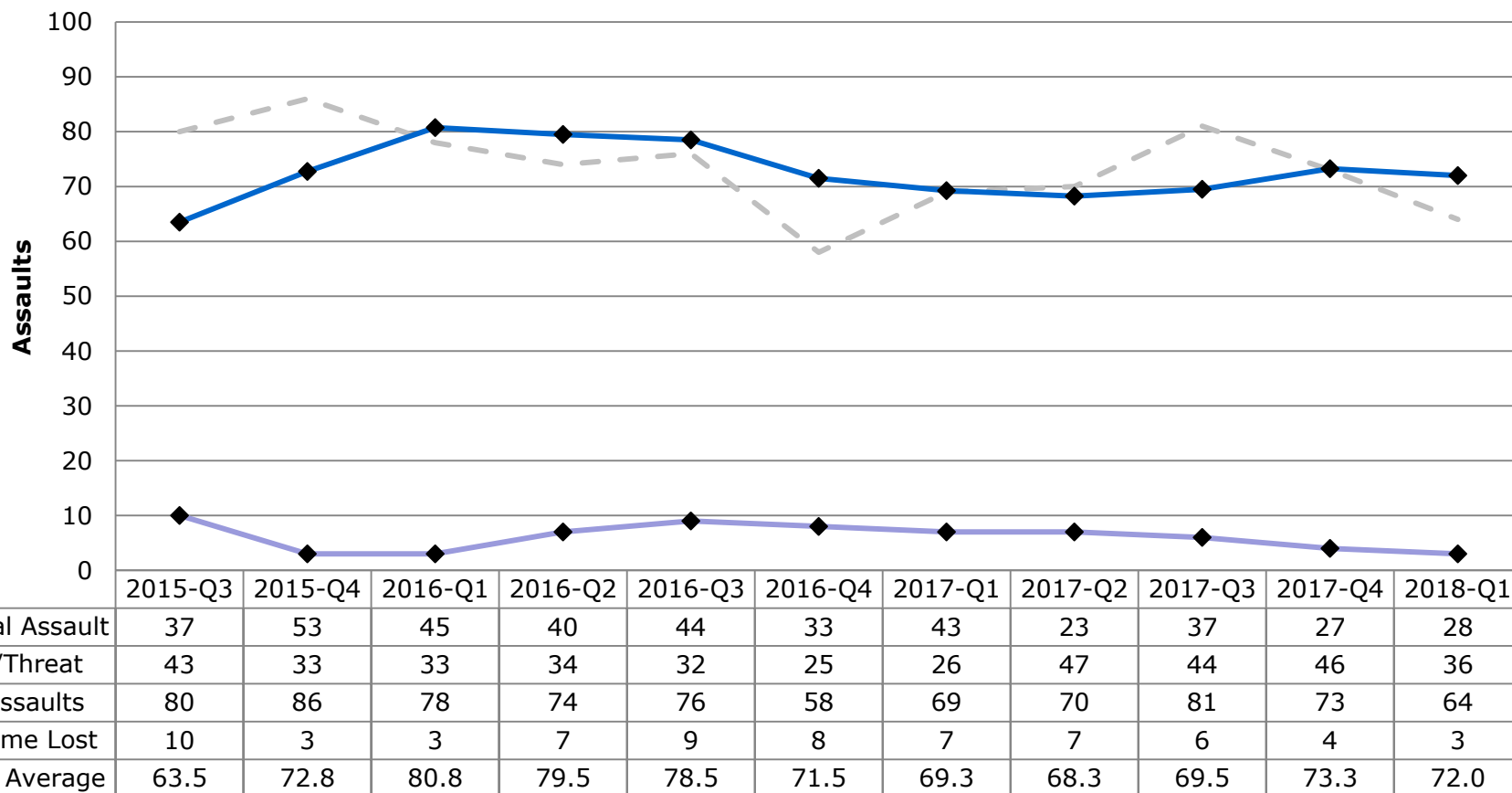
Injury Type	2018 Total	%
Sprains / Strains	28	44%
Contusion / Bruise	17	27%
Cut/Laceration	4	6%

\*Totals based on injury reports submitted to MBTA Safety as of March 31, 2018 and is pending final verification with reporting departments and Worker's Comp.



# Assaults on Employees

## Assaults on Employees\*

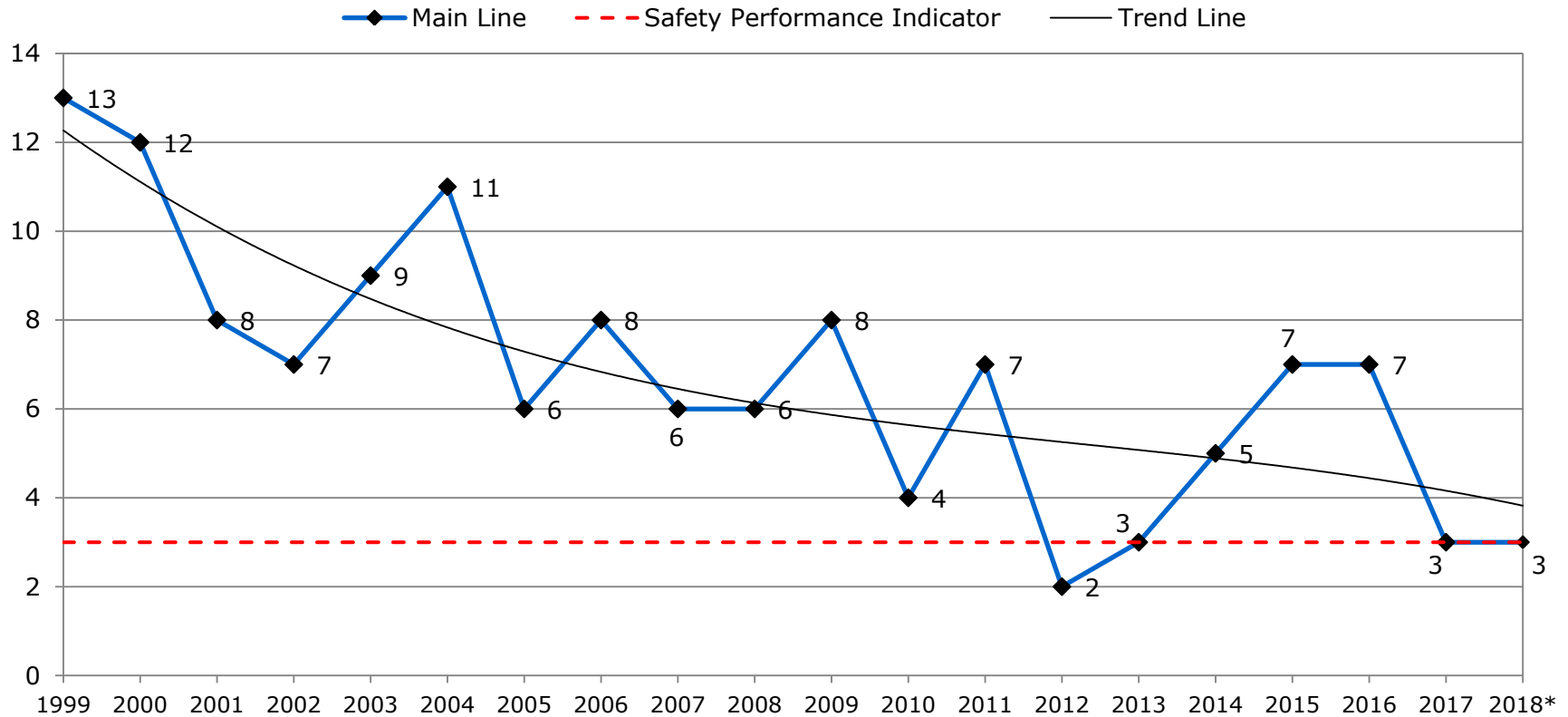


\*Totals based on a review of Operations Logs and injury reports submitted to MBTA Safety



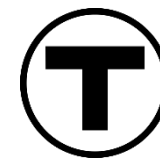
## Derailments – Data Review

### Yearly Main Line Derailments 1999-2018



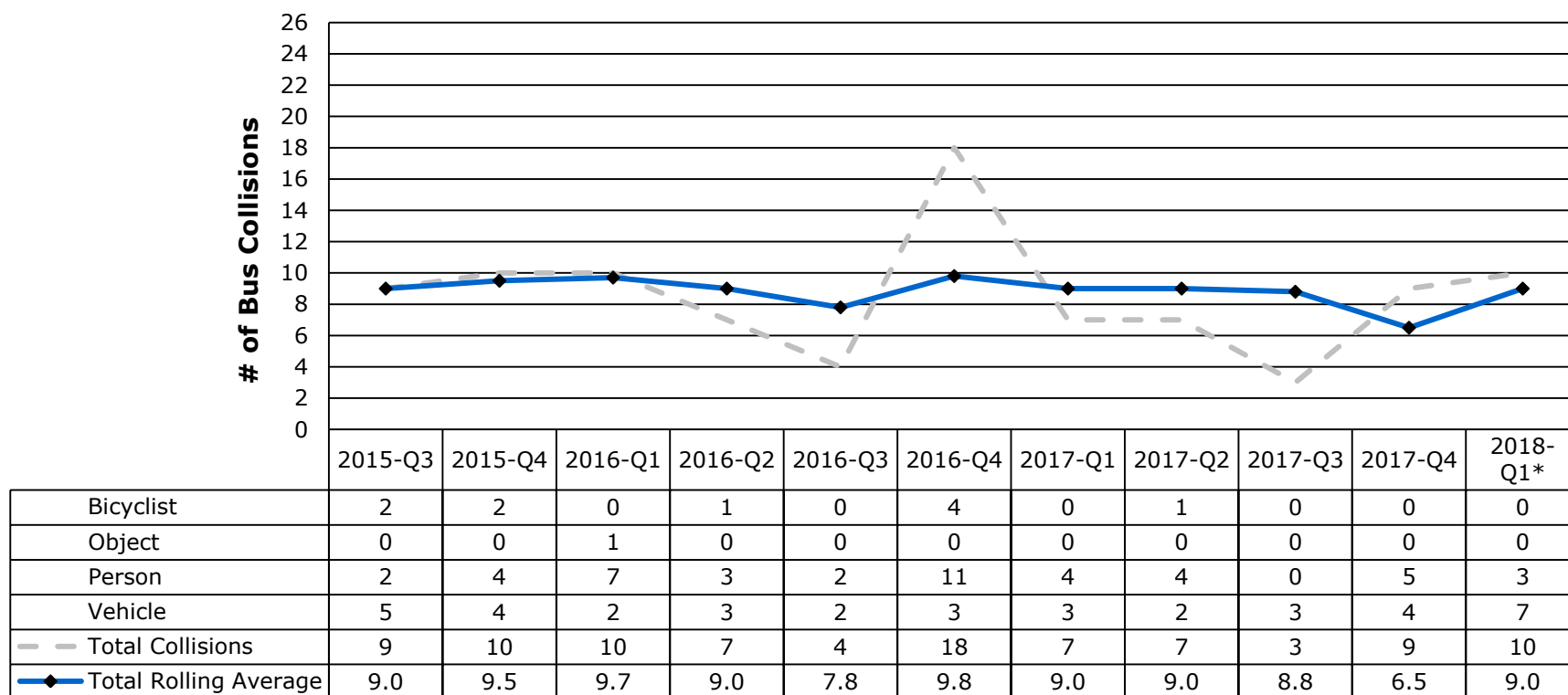
MBTA Safety has coordinated with Transportation Management to improve Investigation processes & procedures.



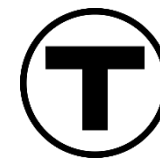


## Bus Collisions

### Reportable Bus Collisions\*

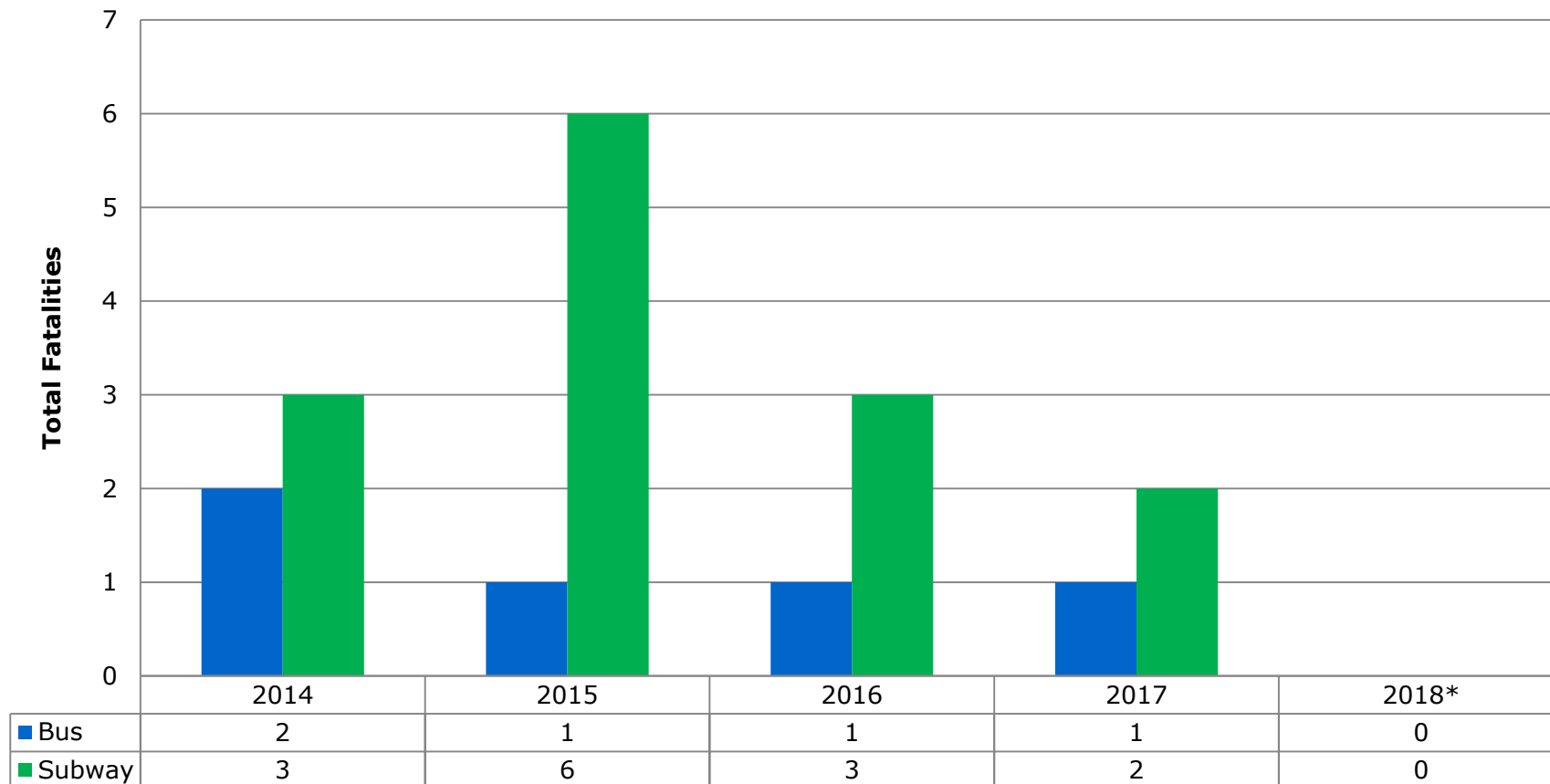


\*Reportable bus collisions are collisions with a person requiring transport to a medical facility, any collision involving three or more transports for medical treatment, or any collision resulting in property damage  $\geq$  \$50,000.



## Bus & Subway Fatalities – 2014-2018

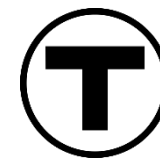
### Bus and Subway Fatalities CY 2014-2018\*



\*2018 Totals include only January through April 23, 2018

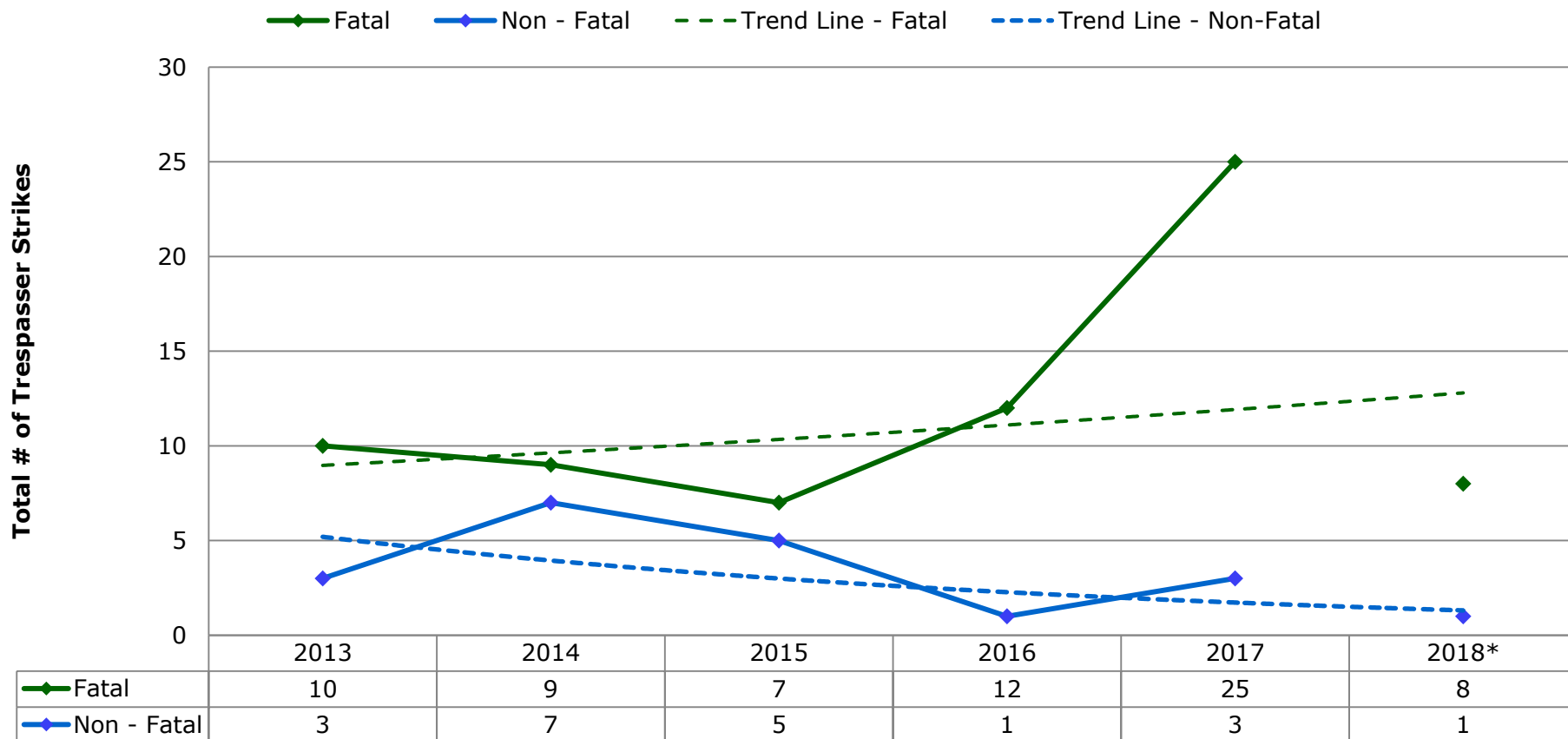
Totals are organized by Calendar Year



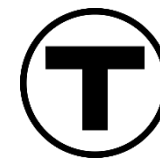


## Commuter Rail Trespasser Strikes

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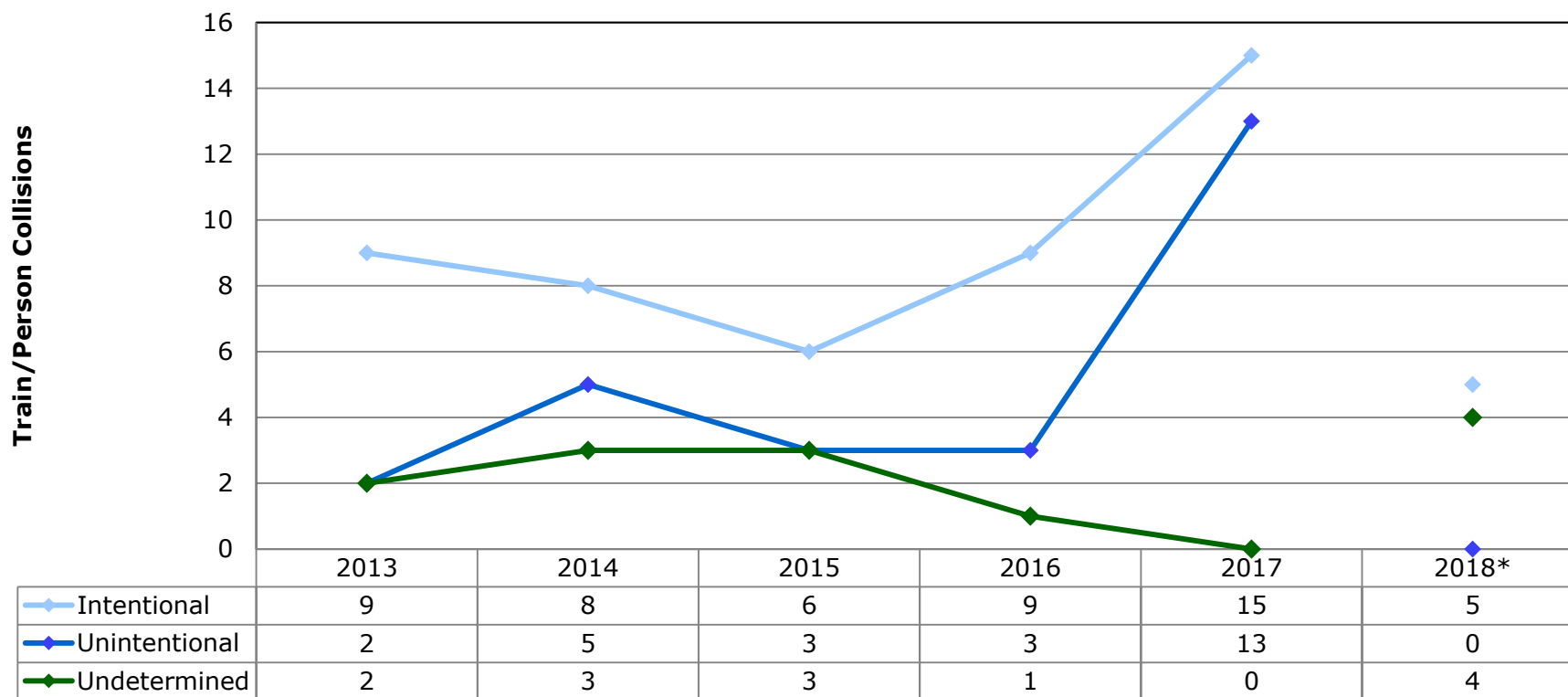


\*2018 Totals include only January through April 23, 2018



## Commuter Rail Trespasser Strikes

### Commuter Rail - Intentional vs. Unintentional 2013-2018



Categorizations are based on a reasonable determination utilizing the available information.

Undetermined incidents include recent incidents without sufficient initial information to make a determination or incidents without adequate historical information

\*2018 Totals include only January through April 23, 2018